

FIG. 1

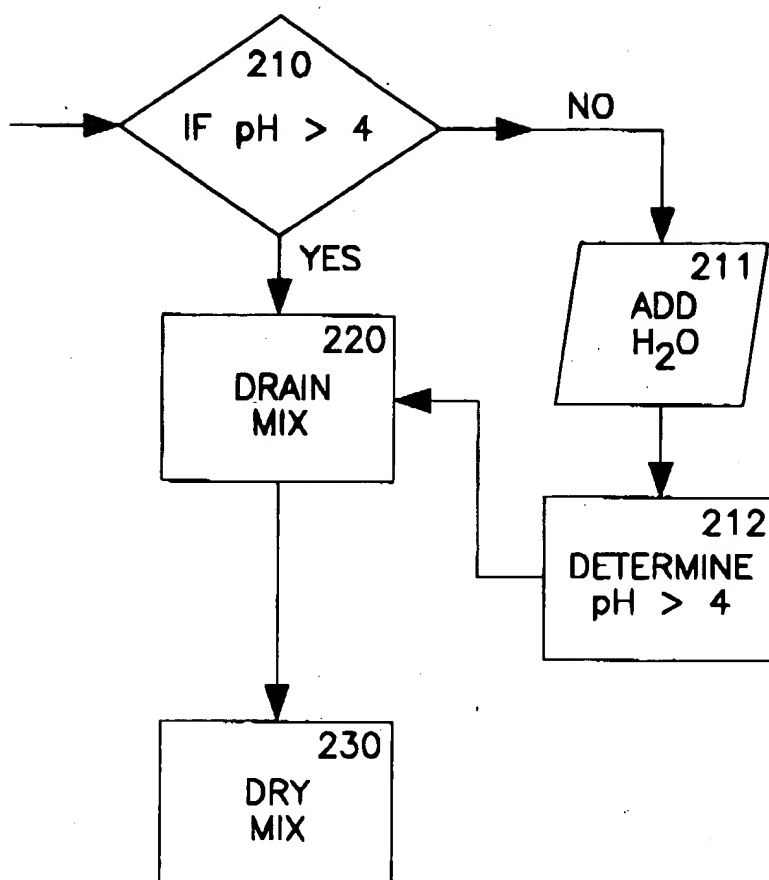


FIG. 2

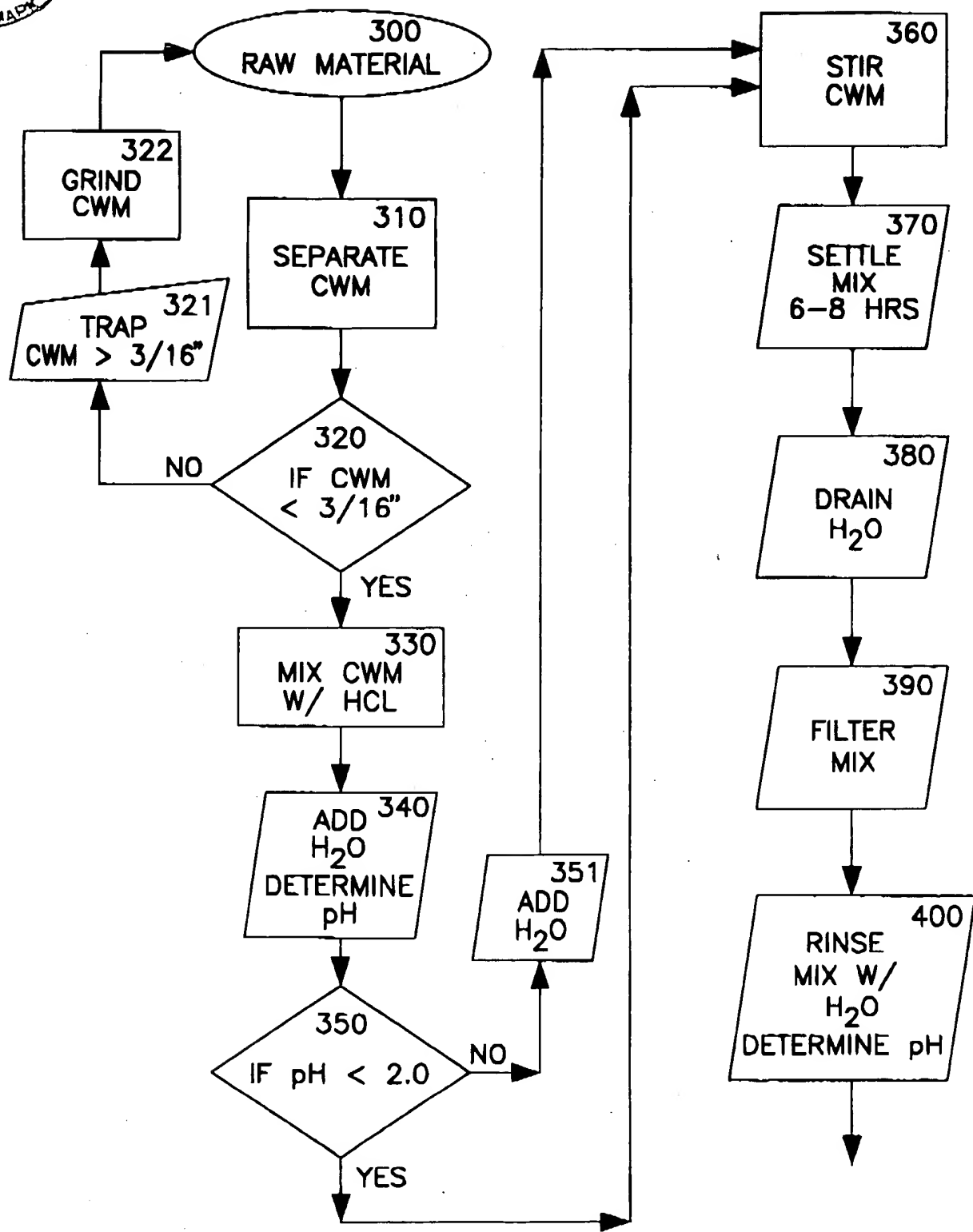


FIG. 3

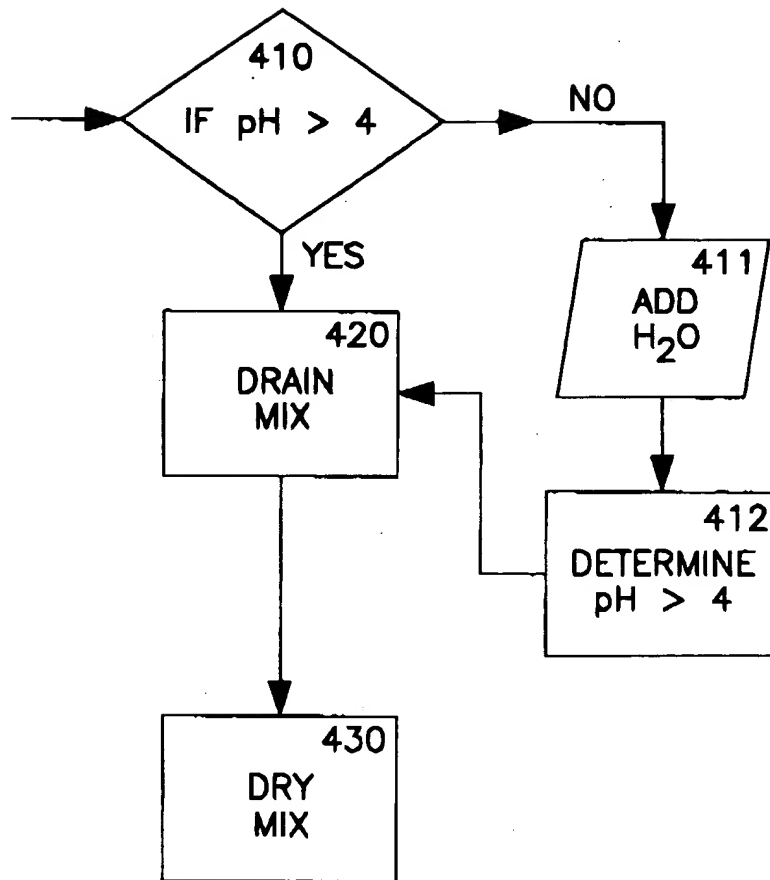


FIG. 4

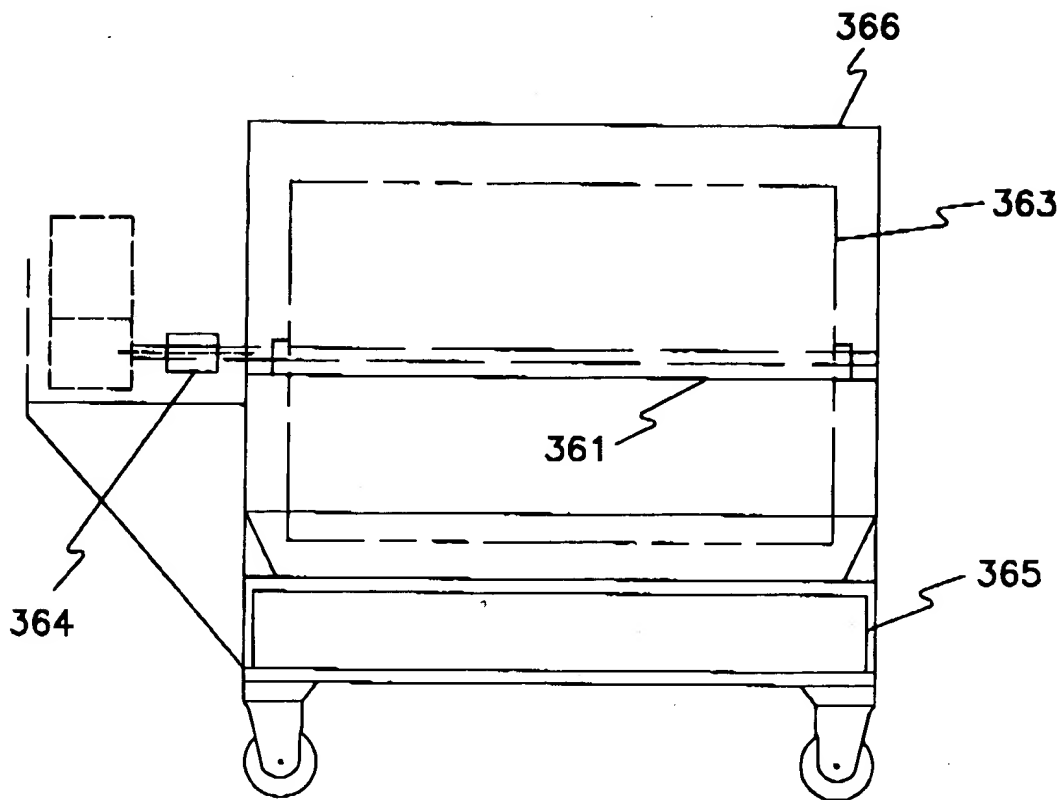


FIG. 5



TABLE 1. COMPARISON OF UNPROCESSED VS. CHEMICALLY PROCESSED CRAWFISH WASTE MEAL.

NUTRIENT	*CONTROL	*TREATMENT #1	*TREATMENT #2	*TREATMENT #3
CRUDE PROTEIN (%)	b 31.40	a 61.10	a 57.90	a 61.60
CRUDE FIBER (%)	b 13.00	a 33.00	a 31.50	a 29.60
CALCIUM (%)	a 15.40	b .80	c .38	d .03
PHOSPHOROUS (%)	a 1.36	b .36	c .25	d .07
Ca:P RATIO	a 11.30	b 2.20	c 1.57	d .43

a,b,c,d

SUPERSSCRIPTS DENOTE STATISTICAL SIGNIFICANT DIFFERENCES AT ($P < .01$).

*CONTROL DENOTES NO CHEMICAL TREATMENT OF THE CRAWFISH WASTE MEAL. TREATMENT #1 DENOTES THE USE OF A STRONG ACID (THREE MOLAR CONCENTRATION AND TWO RINSES OF THE PRODUCT). TREATMENT #2 DENOTES THE USE OF A STRONG ACID (THREE MOLAR CONCENTRATION AND THREE RINSES OF THE PRODUCT). TREATMENT #3 DENOTES THE USE OF A STRONG ACID (FOUR MOLAR CONCENTRATION AND TWO RINSES OF THE PRODUCT).

FIG. 6



TABLE 2. COMPARISON OF LYSINE AND METHIONINE PROFILES OF UNPROCESSED CRAWFISH WASTE MEAL, SOYBEAN MEAL AND CHEMICALLY PROCESSED CRAWFISH WASTE MEAL.

NUTRIENT	*CONTROL	*SOYBEAN MEAL	*PROCESSED CRAWFISH MEAL
CRUDE PROTEIN (%)	a 34.60%	b 46.80%	c 61.30%
LYSINE (gm/100 gm)	a 1.34%	b 2.90	b 2.30
METHIONINE (gm/100 gm)	a .53	a .57	b .94
CALCIUM (%)	a 14.90%	b .38	c .49
PHOSPHOROUS (%)	a 1.50	b .67	c .12

a,b,c

SUPERSSCRIPTS DENOTE STATISTICAL SIGNIFICANT DIFFERENCES AT ($P < .01$).

*CONTROL (CRAWFISH MEAL) AND SOYBEAN MEAL SAMPLES WERE CHEMICALLY TREATED. THE PROCESSED CRAWFISH WASTE MEAL WAS TREATED WITH A STRONG ACID (THREE MOLAR CONCENTRATION AND TWO RINSES OF THE PRODUCT).

FIG. 7